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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/226,216	01/07/1999	HISASHI OHTANI	0756-1921	1375
31780	7590	08/10/2004	EXAMINER	
ERIC ROBINSON PMB 955 21010 SOUTHBANK ST. POTOMAC FALLS, VA 20165				SCHILLINGER, LAURA M
			ART UNIT	PAPER NUMBER
			2813	

DATE MAILED: 08/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

RDX

Office Action Summary	Application No.	Applicant(s)
	09/226,216	OHTANI ET AL.
	Examiner	Art Unit
	Laura M Schillinger	2813

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 May 2004.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 7-9 and 45-60 is/are pending in the application.

4a) Of the above claim(s) 45-60 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 7-9 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

DETAILED ACTION***Election/Restrictions***

Newly submitted claims 45-60 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

Newly submitted claims 45-60 pertain to several distinct species of the elected claims 7-9:

Claim 45, 50, 53, 56 pertains to forming a gate electrode/ insulating layer and amorphous silicon film with a Group IV catalyst;

Claim 46, 51, 54, 57 pertains to patterning the crystallized semiconductor film into at least one island;

Claim 47, 58 pertains to devices including video cameras, mobile computers etc..

Claim 48, 52, 55, 59 pertains to a method with both a baking and separate heat treatment;

Claims 49 and 60 pertain to a method including forming a gate electrode/insulating layer with a germanium catalyst.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 45-60 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki et al ('679)

The applied reference has a common inventor/assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

In reference to claim 7, Yamazaki teaches a method comprising:

applying a solution in which a simple substance of a catalytic element for facilitating crystallization of amorphous Si film or a compound containing the catalytic element is dissolved or dispersed, on a semiconductor film comprising amorphous Si (Col.5, lines: 20-35);

baking the film to form a film with a catalytic element on the film (Col.5, lines: 30-40)

crystallizing the amorphous Si film by carrying out a heat treatment (Col.5, lines: 30-40); and

removing the first comprising the catalytic element from a surface of the semiconductor film after the heat treatment (Col.22, lines: 30-35);

promoting crystallinity by irradiation of laser light or intense light after removing the film comprising the catalytic element (Col.5, lines: 35-40); and

adding an impurity to the semiconductor film to form at least one impurity region imparting one conductivity type in the semiconductor film after promoting crystallinity by irradiation of laser light or intense light (Fig.6C (515; 516; 517; 518);,

wherein a plural kind of elements selected from elements in group 14 are used as the catalytic element (Col.22, lines: 20-30)

In reference to claim 8, Yamazaki teaches wherein Ge is used as the catalyst (Col.21-22, lines: 65-5).

In reference to claim 9, Yamazaki teaches wherein the compound containing the catalytic element is at least one selected from the group consisting of GeBr (2), GECl(2), GeI(2), GeO(2), GeS(2), germane, germane acetate, tris (2,4-pantanenedionate) germanium perchlorate, tetramethylgermane, tetraethylgermane, tetraphenylgermane, and hexaethyl germanium (Col.22, lines: 1-20).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LMS

08/04/04



A handwritten signature in black ink, appearing to read "Leeza W. Phelps". The signature is fluid and cursive, with "Leeza" on the left and "W. Phelps" on the right, separated by a small "v" or "u".